

Title (en)

EXPANDED FOAM PRODUCT MOLDING PROCESS AND MOLDED PRODUCTS USING SAME

Title (de)

FORMVERFAHREN FÜR EXPANDIERTE SCHAUMSTOFFPRODUKTE UND FORMPRODUKTE DAMIT

Title (fr)

PROCÉDÉ DE MOULAGE DE PRODUIT EN MOUSSE EXPANSÉE ET PRODUITS MOULÉS L'UTILISANT

Publication

**EP 4225552 A1 20230816 (EN)**

Application

**EP 21880919 A 20211012**

Priority

- US 202063090506 P 20201012
- US 2021054609 W 20211012

Abstract (en)

[origin: WO2022081593A1] A steam chest mold includes two mold sections defining a mold cavity and a plurality of steam tubes having steam ports positioned within the mold cavity. The mold cavity is closable to contain and compress a plurality of beads such as expanded polyolefin beads. The steam tubes pass through the beads such that steam is injected through the steam ports into the beads to facilitate localized melting and bonding of the bead interfaces to produce a water-impervious panel or billet form. The steam tubes permit bonding of interior beads in thick section billets and panels that cannot be accessed by perimeter steam sources.

IPC 8 full level

**B29C 44/34** (2006.01); **B29C 44/44** (2006.01); **B29C 67/20** (2006.01)

CPC (source: EP US)

**B29C 44/343** (2013.01 - EP US); **B29C 44/445** (2013.01 - EP US); **B29K 2023/00** (2013.01 - EP US); **B29K 2105/046** (2013.01 - US); **B29K 2105/251** (2013.01 - US)

Citation (search report)

See references of WO 2022081593A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**WO 2022081593 A1 20220421**; EP 4225552 A1 20230816; US 2023382023 A1 20231130

DOCDB simple family (application)

**US 2021054609 W 20211012**; EP 21880919 A 20211012; US 202118031252 A 20211012